

ABSTRACT

A decoupling capacitor connected to a power source for reducing power source noise. The capacitor has a dielectric thin film 8, the dielectric thin film 8 is comprised of a bismuth layer structured compound with a c axis oriented substantially perpendicularly to the plane of a thin film forming substrate, the bismuth layer structured compound is expressed by the formula  $(\text{Bi}_2\text{O}_2)^{2+}(\text{A}_{m-1}\text{B}_m\text{O}_{3m+1})^{2-}$  or  $\text{Bi}_2\text{A}_{m-1}\text{B}_m\text{O}_{3m+3}$ , the symbol m in said formula is a positive number, the symbol A is at least one element selected from Na, K, Pb, Ba, Sr, Ca, and Bi, and the symbol B is at least one element selected from Fe, Co, Cr, Ga, Ti, Nb, Ta, Sb, V, Mo, and W

[SELECTED DRAWING] FIG. 1